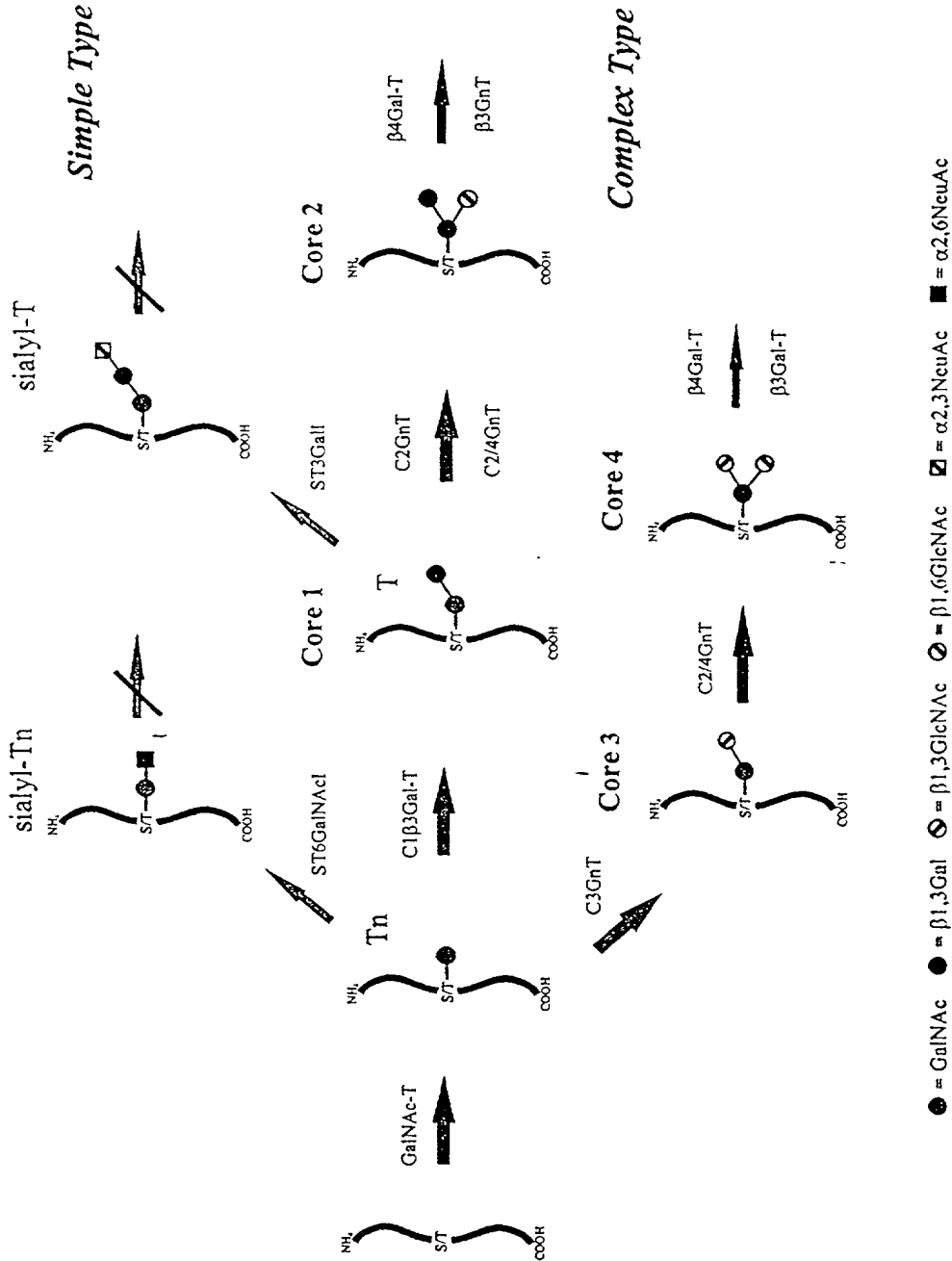


Fig. 1



15	1	ATTAACTGGGTTTC	135	CTATTATCTCCTCGCATTTACTCTGAGTCAGAGCCTCTTCTCTAAAGTCACGGGAACCTCCCTTGCTACTTGACAGCTGCGCTTTTACTCAGCAGATTTTCTGCTGGGAAGCC	1335
135			255	CGGAGTTCTGTAATACCTACATCTAGCTGTGAAGAAACAGATGAAGACATGACCTCAAGAGGTTCTGTCATAGACAGACACAGCTCAGCCCTGGCAAGATATTAAGAAG	255
255			375	CGAGCTGAAACTGTTCTTTGACATCTTGAATGTCAGAAAATACCTTTGGAGGTTAGAAAGTACAGAGACATGGTTGTTCCATTTGCTGCCAGCAACCCGCCAGCTTTCAC	375
375			495	TGAAACAGATCAACGCCCTTGTGAAGAGATCATCCCTAAGCAGGAGAGAGCTACTAAGAGATTGTCTCCTCCACCTTCCCTGCTGCTCCACCTGCTCCCATTTCTGTGAGC	495
495					
1	M V Q W K R L C Q L H Y L W A L G C Y M L L A T V A L K L S F R L K C D S D H L	40	ATGGTTCAAATGGAAGAGACTCTGCCAGCTGCATTACTTGTGGGCTCTGGGCTGCTATATGCTGTGCCACTGTGGCTCTGNAACCTTTCTTCAGGTGAAGTGTGACTCTGACCACTTG	615	
496					
41	G L E S R E S Q S Q Y C R N I L Y N F L K L P A K R S I N C S G V T R G D Q E A	80	GGTCTGGAGTCCAGGGAATCTCAAAGCCAGTACTGTAGGAATATCTTGTAATAATTCCTGAAACTCCAGCAAGAGGTCTATCAACTGTTTCAGGGGTACCCGAGGGGACCAAGAGGCA	735	
616					
81	V L Q A I L N N L E V K K R E P F T D T H Y L S L T R D C E H F K A E R K F I	120	GTGCTTCAGGCTATTCTGAATAACCTGGAGTCAAGAAGACGAGAGCCTTTCAGACACCCACTACCTCTCCCTCACCAGAGACTGTGAGCAGCTTCAAGGCTGAAGGAAGTTTCATA	855	
736					
121	Q F P L S K E E V E F P I A Y S M V I H E K I E N F E R L L R A V Y A P Q N I Y	160	CAGTTCCTCCACTGAGCAAAAGAGGTGGAGTCCCTATTGTCATCTCTATGTTGATTCATGAGAAGATTGAAACTTTGNAAGGCTACTGCGAGCTGTGTATGCCCCCTCAGAACATATAC	975	
856					
161	C V H V D E K S P E T F K E A V K A I I S C F P N V F I A S K L V R V Y A S W	200	TCGTGCCATGTGGATGAGAAGTCCCCAGAACTTCAAAGAGCGGTCAAAGCAATATTATTCTTGTCTCCCAATGTCTTCATAGCCAGTAAGCTGGTTCGGGTGGTTTATGCCCCCTGG	1095	
976					
201	S R V Q A D L N C M E D L L Q S S V P W K Y F L N T C G T D F P I K S N A E M V	240	TCCAGGGTGCAGCTGACCTCAACTGCATGCAAGACTTGCTCCAGAGCTCAGTCCGTGGAATPACTTCTCTGATATACATGTGGAGCGGACTTCCCTATAAAGAGCAATGCAGAGTGTGC	1215	
11096					
241	Q A L K M L N G R N S M E S E V P P K H K E T R W K Y H F E V V R D T L H L T N	280	CAGGCTCTCAAGTGTGAATGGGAGGAATAGCATGGAGTACCTCTTAAGCAACAAGAACCCCGCTGGAATATACATCTTGAGGTAGTGAGAGACACATTACACCTAACCAAC	1335	
1216					
281	K K K D P P P Y N' L T M F T G N A Y I V A S R D F V Q H V L K N P K S Q Q L I E	320	AAGAAGAGATCCTCCCTCTTATAATTTAACTATGTTTACAGGGAATCGGTACATGTGCTTCCCGAGATTTTCGTCCCAACATGTTTTGAAGAACCCTTAAATCCCAACAACATGATTGAA	1455	
1336					
321	W V K D T Y S P D E H L W A T L Q R A R W M P G S V P N H P K Y D I S D M T S I	360	TGGTAAAAAGACACTTATAGCCAGATGAACACCTCTGGGCCACCTTCAGCGTGCACGGTGGATGCGTGGCTGTGTTCCCAACCAACCCCAAGTACACATCTCAGACATGACTTCTATT	1575	
14456					
361	A R L V K W Q G H E G D I D K G A P Y A P C S G I H Q R A I C V Y G A G D L N W	400	GCCAGGCTGGTCAAAGTGGCAGGTCATAGGGAGACATCGATAAGGGTGTCTCTTATGCTCCCTGCTCTGGAATCCACAGCGGGGCTATCTGCGTTTATGGGGTGGGGACTTGAATTGG	1695	
11576					
401	M L Q N H H L L A N K F D P K V D N A L Q C L E E Y L R Y K A I Y G T E L *	438	ATGCTTCAAACCATCACCTGTTGGCCACACAGTTTGACCAAGGTAGATGATATGCTCTTCAGTGCTTTAGAAGATACCTACCTTATAAGGCCATCTATGGCACTGAACCTTTTGAGAC	1815	
11696					
1816	ACACTATGAGAGGTTGCTACCTGTGGGCAAGACATGTACAAACATGCTCAGAACTTGTCTGGACAGTGTGGTGGGAGACCAGGGCTTTTGCATTCGTGGCATCCTTTAGGATAAGA	1935			
1936	GGGCTCTATTAGATTGGGTAAAGTAGATCTTTTGCTTGCATTTGCTGCTTGTCTCTCACCCCTAACCTTAGTAGTTCCTCCACTAACCTTCTCCTCAAGT	2055			
2056	GAGATAGACAATGCTGTGATAGGAGAGTGAAGAGGGATATGTGGTAGAGCACTGATTTCAGTTGAATCGCTGGTAGCTTTTCCATTTCTGTGGAGCTCGCGTTTCCATAAATTC	2175			
22176	CAGGTTTGTAGCGGTGGAGAACTTCCCTTCTGCTACTGTTAACCTAATAAATAAATAGCTCCTGTATCCAAAGTATTACCTCTACTCTTCTTCTTGTGCGCTAGTATGCC	2295			
2296	AGAAATAATAAATCTCAACAG	2319			

```

C2/4Gnt : MVQWRLCOLHYLWALGCMLLATVALKLSFRLKCDSDHIGLESRESQSQYCRNIIYNFLKLEAKRSINCSGVTRGRQEAVALQAI : 85
C2Gnt : --MLRTHLIRRRLLFSYPTKYYEMVLVLSLITFSV-----IRHQKP---EFVSVRHLELAGENPSSDINCTKVLQGLVNEIQKVK : 74
IGnt : -----MPLSMRYLGIISVSSVIGIIV-----FSVFNEGGDESFQRLNISDPLR-----LTQVC : 48

*
C2/4Gnt : LNNLEVKKKREP-FTDTHYLSLIRICEHFKAEKFIQPLSKEEVFEPPAYSMVHEHEKIENFERLRVAVYAPONIYCVHVDKSP : 169
C2Gnt : LEILLTVKFKKRPRTTPDDYINMTSDCSSFIKRRKAYIVEPLSKEEAFFPAYSIIVHHKEMLDRLIRATYMPONFYCVHVDTKSE : 159
IGnt : TSFING--KTRFLMKNKLMHEKSSCKEYLTQSHYITAPLSKEEADEPLAYIMVHHHHHFDTEARLERATYMPONIYCVHVDKAT : 131

*
C2/4Gnt : ETEBAVKALISCFENVFIAASKIVRVVYASVSRVQADLNCMEDLLQSSVPWKYFLNHCGTDFFAKSNAEVQALKMINGRNSMES : 254
C2Gnt : DSYLAAMGIA SCFSNIVASRLSVVYASVSRVQADLNCMKDLIAMSANWKYLLNLCCMDFPKNLLEIVRKLLIMGENNLET : 244
IGnt : TEKDAVEQLISCFENAFASKMEPVVYGGISRLQADLNCIRDLSAFEVSWKYVINTCGQDEPLKHNKELVQYLLKGFKGKNITPG : 216

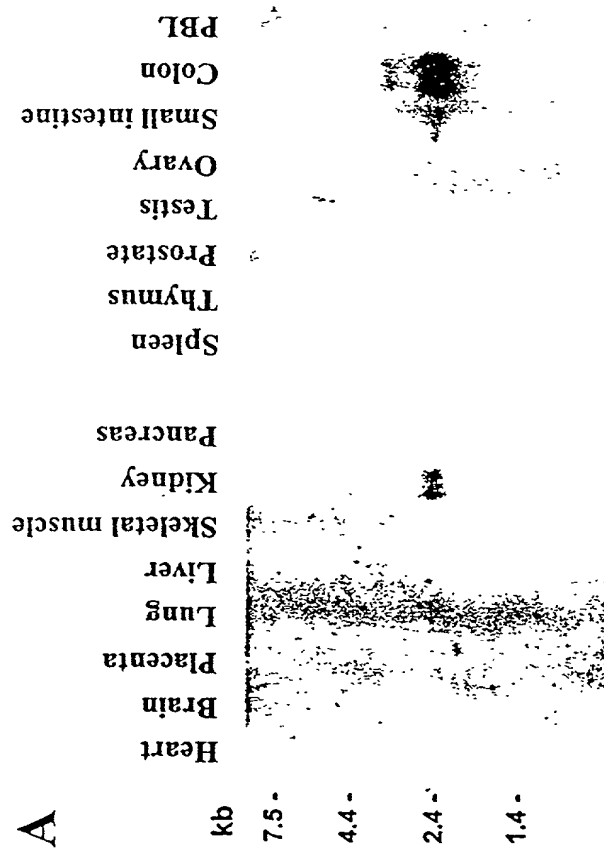
*
C2/4Gnt : EYEPKHKETRWKY-HFEVVRDTLH---LTNKKKDEPPYNLTMTGNAYIVASRDEVQHVLEKERSQQLIEWVKDTYSPDEHFWNT : 335
C2Gnt : ERMPSHKEERWK-K-RYENVNGKLT---NTGTVKMLPPLETPLESGSAYFVWSREYVGYVLQNEKIQKLEMAQDTSYSPDEYLMAT : 325
IGnt : VLEPAHAIGRTKXVHQEHLGKELSYVIRTTALKPEPPHNLTIYFGSAYVALSREAFANFVLHDPRAVDLLQMSKDTFSPDEHFWNT : 301

*
C2/4Gnt : LQARWMPGSPVNHPKVYISDMTSTARLVKMQGHECDDIDKGAFAFCSGIGHQRAFCVYAGDLNWNHQNHHLLANKEDPKVDNA : 420
C2Gnt : IQRIPEVPGSLPASHKYDLSNQAVRFRFKWQYFEEDVSKGANYPECDGVHVRSVCHFGAGDLNWNHLLPANKEDVDVDLFA : 410
IGnt : LNRIFGVPGSMPN-----ASWTGNLRAIKWSDME-DRHGG-----CHGHYVHGTCLLYGNGLKWLNVNSPSLEFANKFELNTYPLT : 374

*
C2/4Gnt : LQCFEYRVRKAIYGTGL----- : 438
C2Gnt : IQCLDEHHRHKAETLKH----- : 428
IGnt : VECLELRHRERTINQSETAIQPSWYF----- : 400

```

Fig. 4A



09374390-060401

Fig. 4B

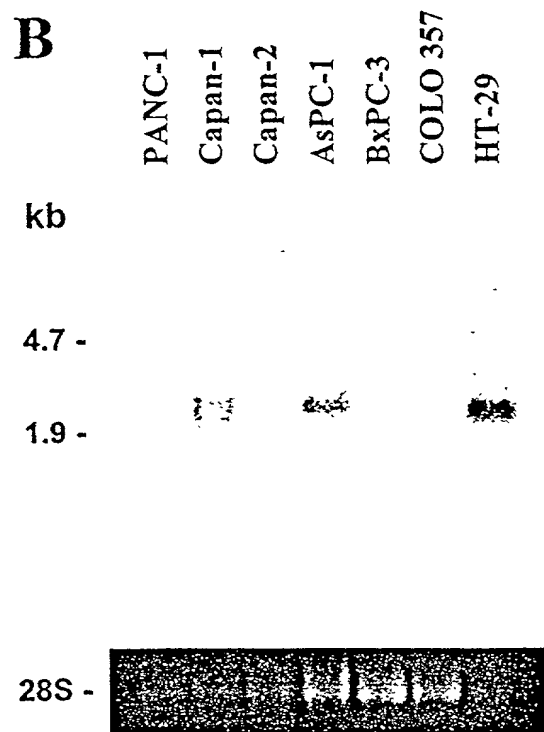


Fig. 5

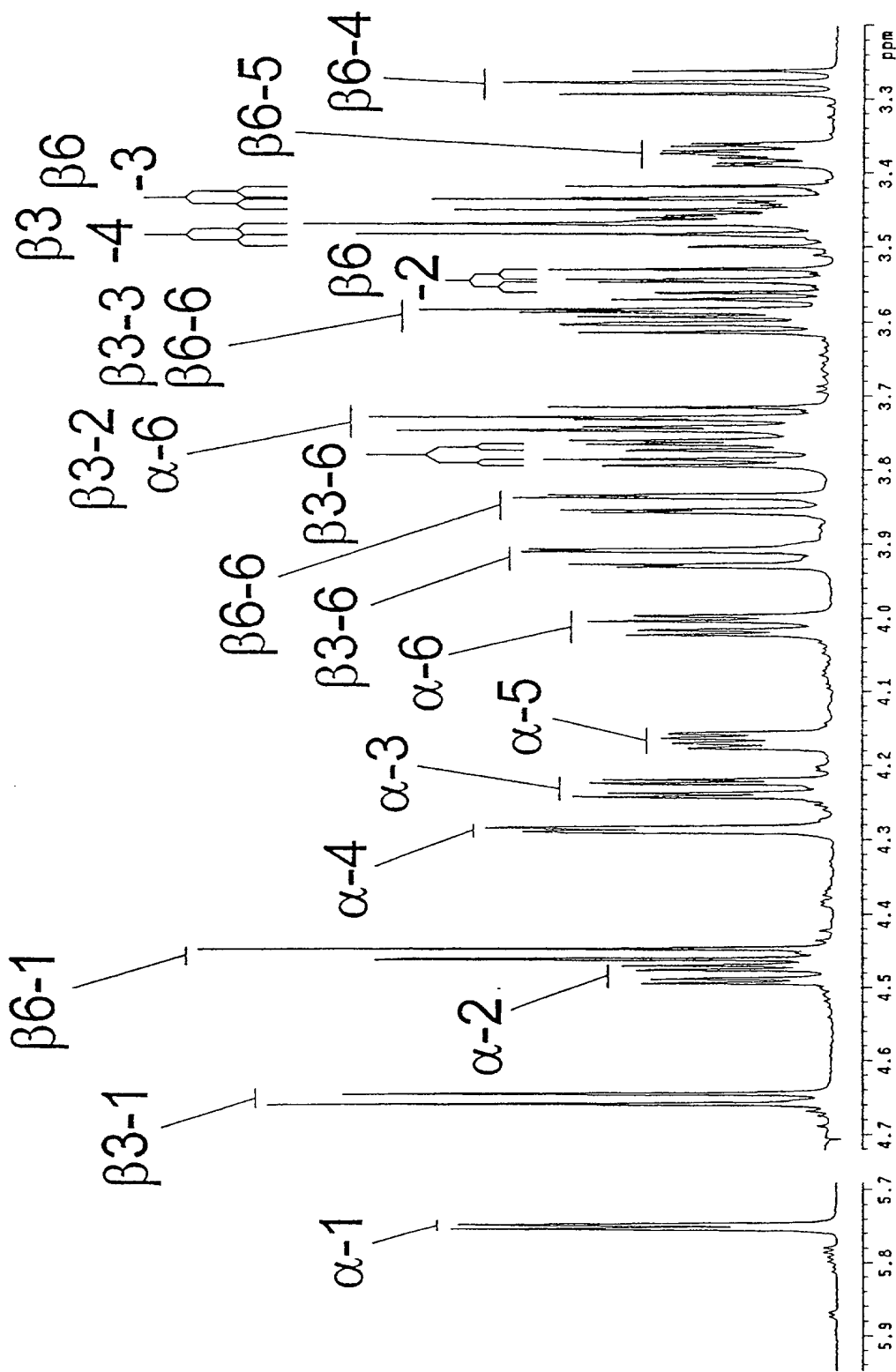


Fig. 6

T04090" 06Eh2860

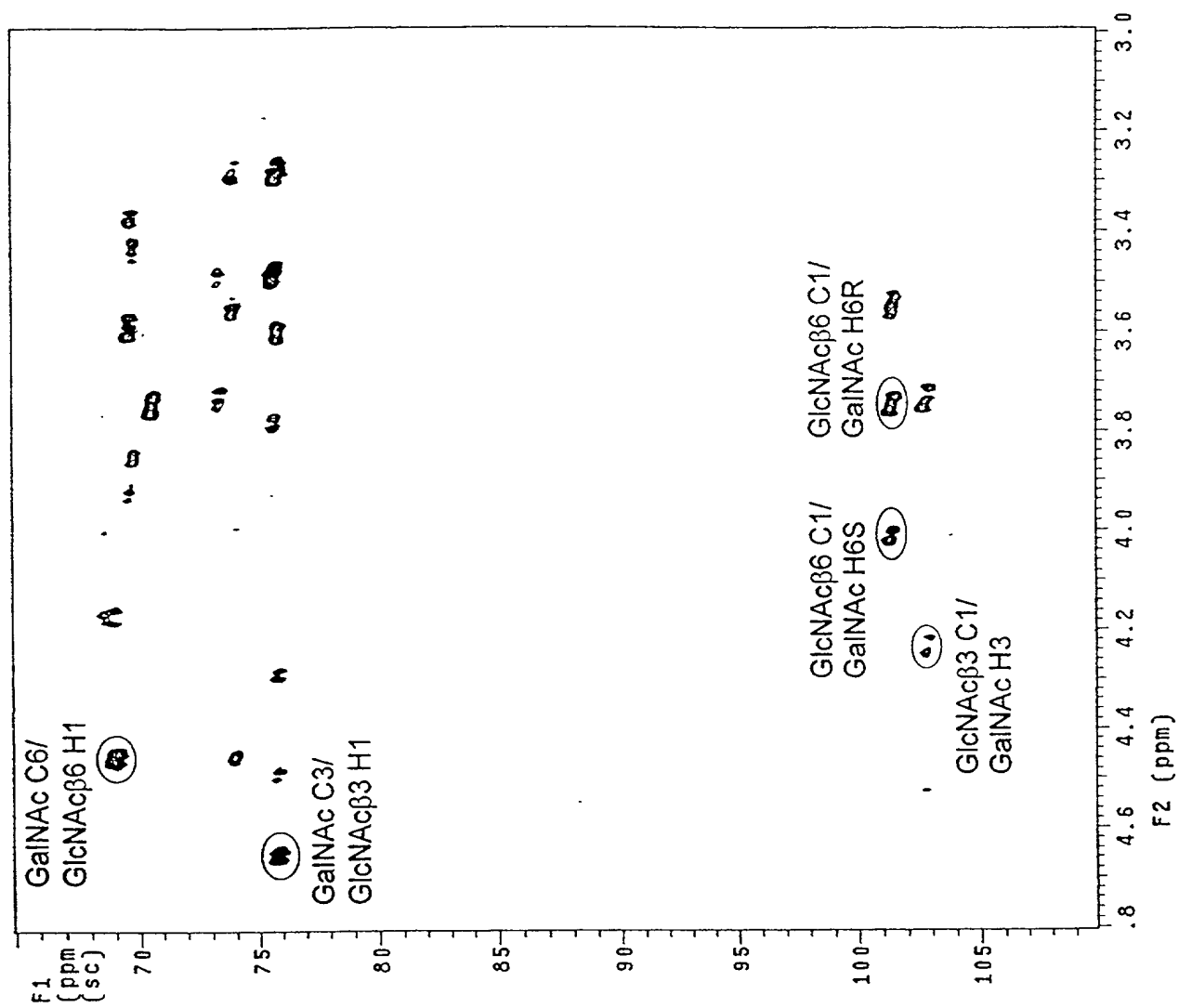
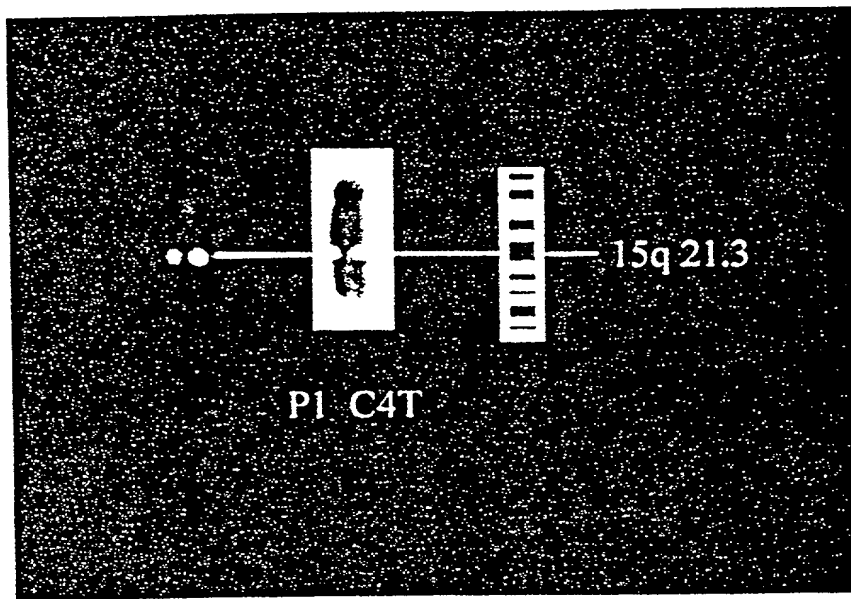
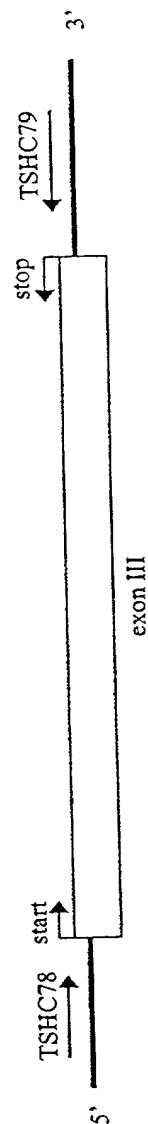


Fig. 7



09874390 060401
T 07090" 06Eh2860

C2/4GnT



TSHC78: 5'-GCTCGGTCTCCACCTGTCTCTCC-3'

TSHC79: 5'-CCACAGGTAGCAACGCTCTCA-3'

Fig. 8